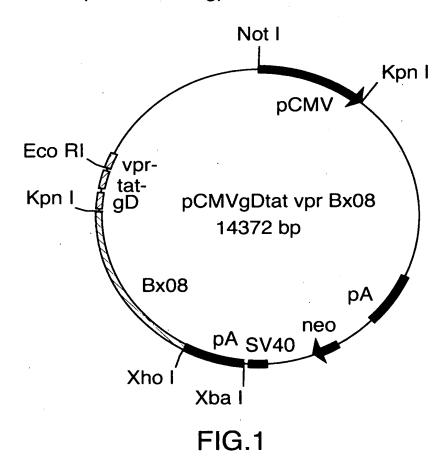
#### Plasmid pCMV .Bx08.gp160



APPROVED	O G. FIG.		
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DRAFTSMAN			

#### DNA immunization plasmid pCMV3Bx08.

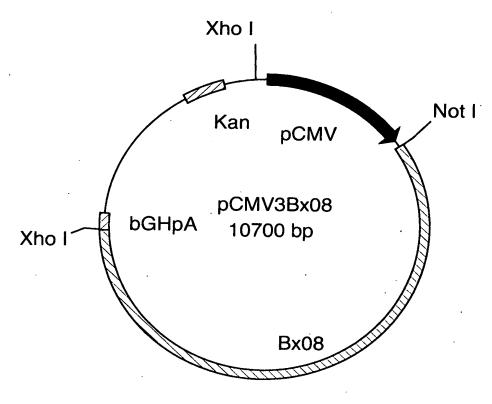
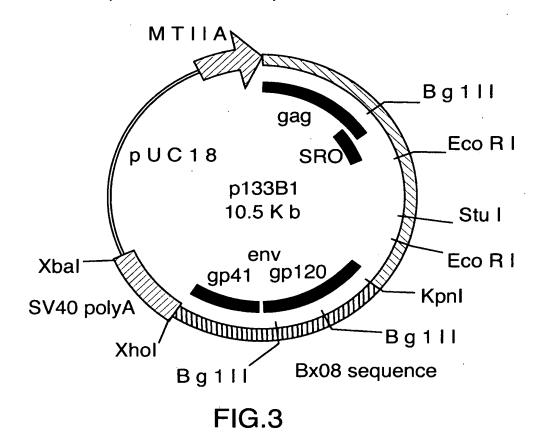


FIG.2

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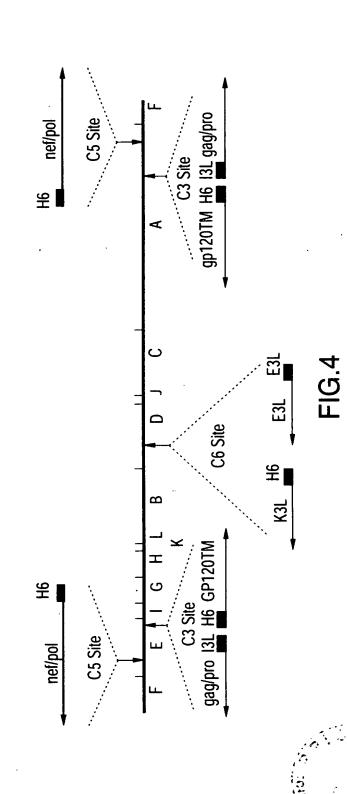
#### Pseudovirion Expression Plasmid p133B1 HIV-1 Bx08



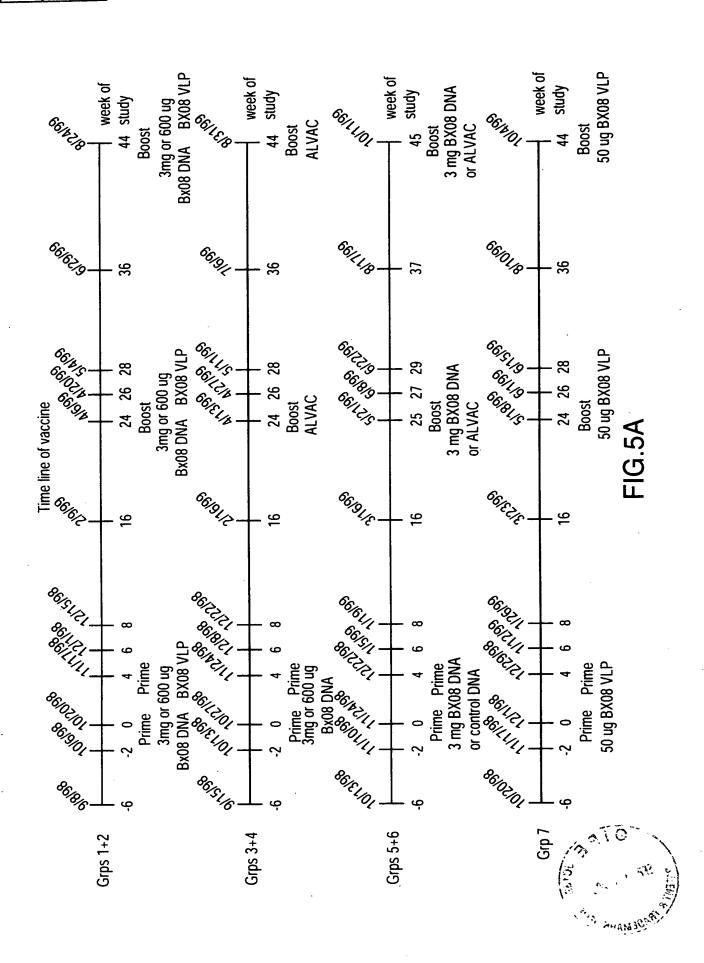


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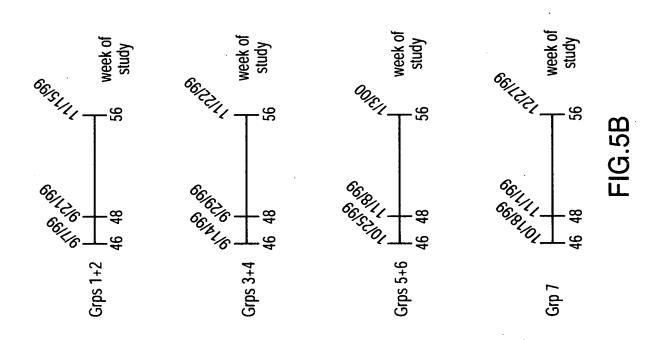
ALVAC(2)120(BX08)GNP (vCP1579) (ALVAC Xhol Restriction Map)



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APPROVED O.G. FIG.			
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APPROVED O G. FIG.		
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26 wk macaque serum immunoreactivity to HIV antigens (1:100 diln)

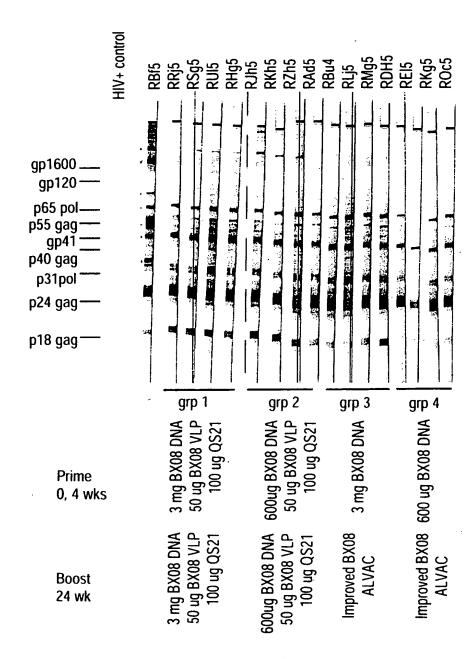


FIG.6A



APPROVED O G. FIG.			
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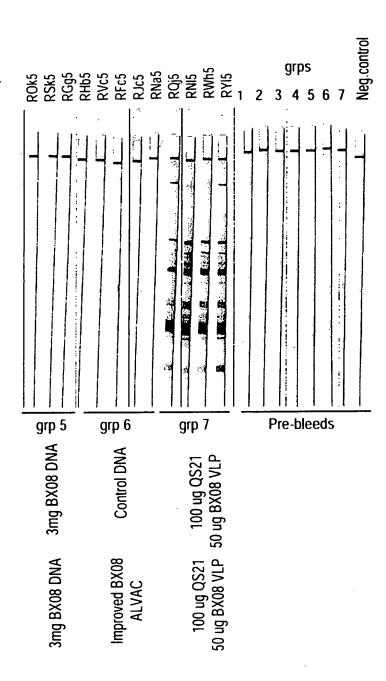


FIG.6B



	O.G. FIG.		
BY	CLÁSS SUBCLASS		
DRAFTSMAN			

26 wk macaque serum immunoreactivity to HIV antigens (1:1000 diln)

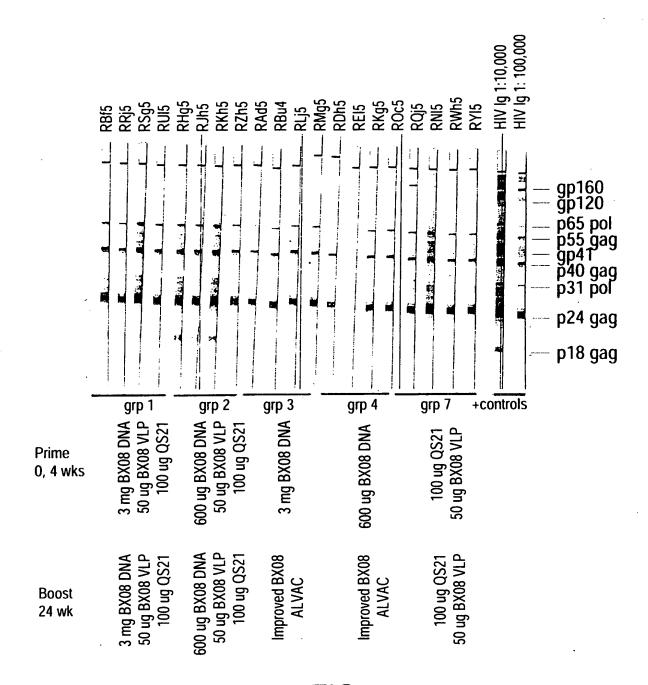
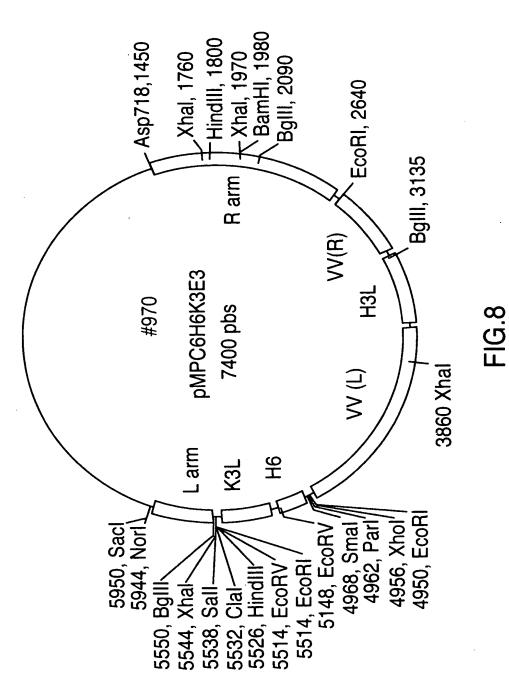


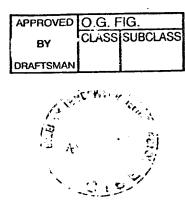
FIG.7



APPROVED		
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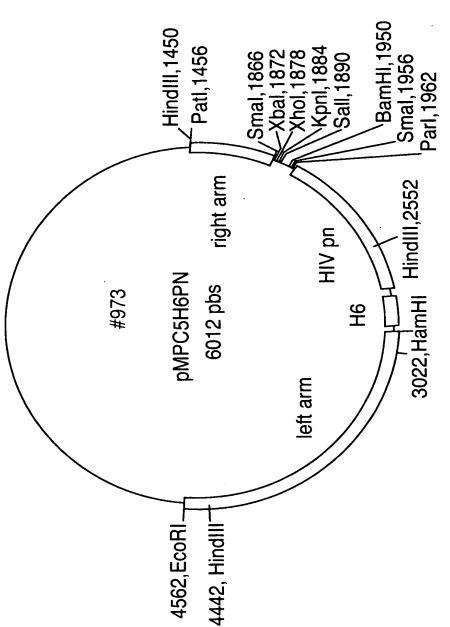


FIG.9

APPROVED O.G. FIG.			
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#### Plasmid pHIV76

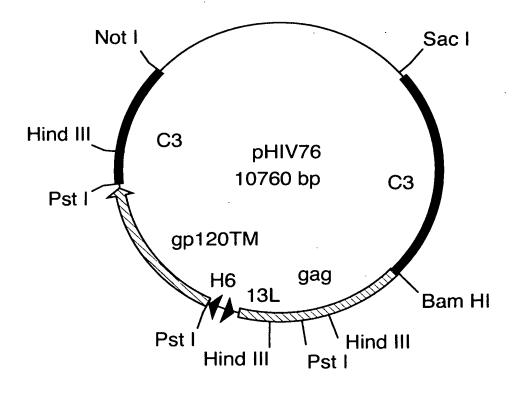


FIG.10



APPROVED O.G. FIG.

BY CLASS SUBCLASS

DRAFTSMAN

# FIG.11A

VCP1579: H6/HIV Pol/Nef epitope cassette in ALVAC C5 site

TOCATICATITY GIVITINGGA TOTICACITIAG AAAITAGOGCA GCAITAGAACA GCTPCAAGCT AGTACCAATG TACATTAGCA GGCAATTAITIC CALIACITIALC GAATTIACACA TRACCICCC TCATTRACTR GAAAACGAAA CITTAAAAGT GAAAATAAAT THEAGGETHE TETTPAATTE AAAGCEAGAA ALPAHCALPA ALTAHTHCAL TOOGITIMAGII TITGIIMITOGIIM AITGOCACIIMA CAGAAGAAGA AGAGCIIMGAA TGACCCATCA AITICICAACG AAGACAAGAI GGAITCCCCCA TCAAATTTAT GGINGGITITI ACAUCITICI TAGACAAGGT TITADADADICT GADADCAGGA AUGGAGIIGGA GAITTIGAITIC TACCTAGAGA ATTACATICCT GAATATTTTA AAAATTGTAT TCACAAAAAT CITIACAGCCT TITIACAAAAC AAAAITCCACA AAAAIINGAGG AGCIIGAGACA ACAIICIIGIIIG AGGIIGGGGGAC ITIACAACCAI CICAAGIACC ITITAAGACCA AIGACITIACA AAGCAGCIGI CIGATIOGCA GGAUCTTRAIL TINGGIOGAC ACAGAGAGAT TCTBABAGAA CCAGTACATG GAGTGTBATTBA **AATIGGACATTA** CITEAATTAAT TAGAGCITICT TTAITICITATA AACAAAAAGG AGGITTIAGAA GGGCIAATITC ACAAAAACTA ATCAGCTATC GGGGTTAATT AATTAGTTAT GGGCAAGGCC THITHHICAN TANHTAGAAA THAIGCANH TAGAICHTIA CGITTAATTAA TCATTACTACAA GGATTATTTTTC TITIGGITIGGI CCAGGGTACC ACAGAAGCAG GAGIICAGAITA COCATITAACC CCCCCCATCC ATTICTAGACT OCACAACCAG ACTIATICTIGCT TGIGGATITA TAGCAGAAAT CACITITIDA ALTICITICALL GICALPAAAA TCAGGCAGGG CENTITICEAG **ACAAAGGITIC** CTGGCCACAAA CCAGGACCAG TATOGOGATA **AAAGACITIAA** CAACAGOCAT TITICALICAGE CAAAGIIAGCA TATCAATACA CCAGIBACAC 1021 961 301 361 481 541 601 661 841 901

GCCCAAAAGI IAAACAAIIGG GIACAGAGAI GGAAAAGGAA

AITICACACTIC TACCAGTAAA AITTAAAGCCA GCAATIGCATIC CCATTICACAC AAGAAAAAAT AAAAGCATTA GTAGAAAITT

1081 21141 01201

GOCHAPATITI CAPAPATITICS COCTITABITITI TITCTICCAGOC

CGGGGGAITCC

APPROVED	APPROVED O.G. FIG.		
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### FIG. 11E

1261 TAATTAGICA GGIACCITIG AGAGIACCAC TICAGCIACC TCITITIGIGI CICAGAGIAA 1321 CITICITIMA ICAALIOCAA AACAG

Upstream (right) flanking sequence: 1-266 W H6 promoter: 267-390

HIV pol/nef/pol/nef/pol cassette: 391-1227 Downstream (left) flanking sequence: 1227-1345



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# FIG.12A

E3L and K3L genes in C6

110 ... INCAIRITING INCAAAGGIA IICAIRITIIC CIRICAAITIC IRAAGIAGAI GAIRITRAIR ... AICTATAAIG AIGITICCAT AAGTATAAAG GATAGITAAG ATTICAICTA CTATAATTAT 100 9 8 50... CICCAGOGC GOOGGAIRGI TITICAGAAIT ACICAAICCA CAICIAICAI... GAGCTOGOGG COGOCTENTCA AAAGTOTTEAA TGAGTTEAGGT GTEAGATEAGTA... 40 \* 9 30 \* 20 12

200 190 TGAGITICIA CIACIAICAI CIPATIAICIA 160CAGIAIA ITACIGAGGI... ACTICAAAGAI GAIGAIIAGIFA GAIFAAIFAGAI AOGCICAIFAI AAIGACTGCA... 160... 180 150 \* 170 140 \* 130 \* 120

... AAITIIGGAGG GIICACAIIII IBAICAICAC GOGIICAIBA GIIIICAACIG CAIAGAICAA 210 \*

220

... TIPAACCIGC CAAGIGIPAA AITIAGIAGIG COCAAGIAIT CAAAGITICAC GIAICIAGIT



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## FIG. 12B

270... AAITCICACIA AAAAGAIMGC OGAIGIRAITII GAGAGAGAITI GGACAITCIRA... TIMGAGIGAL TITICIPICS GCIACAIRAA CICICICIRA CCIGIAGAIT... 260 250 \* 240 230

... GAIGCCATITI CITITAAIGIC AAIRITTAITI AIGIRITIACC IRAAACAAIR GIRGICAAIR ... CIPOCCIPAA GAAAITIACAG TIPATAAAIPA TACAIPAATIGG AITITIGIITAI CATCAGITIAI 33 320 310 300 290 280

\* 420 \* 410 TAPATHGEAT ICAUGITATT THICATAATT TATTITETIG AATGAAHGCT... 380... AITITAACAITA AGITACAAITAA AAAGITAITIAA AITAAAAAITAC ITITACITITACGA... 370 390 360 350 340

... AAAAAIIGACT AATITAGCITAI AAAAAQQCAG AICTICIQGAG GIQGAQGGITA IQGAITAAGCT ... TITITIMOTICA TITALIOGADA TITITIGOGIO TACAGAGOTO CAGOTOCCAL AGOTALIOGA

440

430



	O.G. FIG.				
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# FIG.12C

		530	*		AAA		
		ານ໌		25	GIG	>	
			*	AAT	TITA	н	
				-	ASA ASA	ĸ	
		520	*	AAC	TIG	>	
			*	AIC	TAG	Ω	
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		510	*		Ž		
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470	G AGA				CIG	>	
	G ATG C TAC H	1 5	*	AIT	TAA	Z	
*	A TIG		*	GIA	GAT	×	
	E A	•	•	:	:	:	
460	AAAA TITIT						
*	CAILA						
0 *	A T						
450	TOGA AGCT						
*	TCATATICCAA TTCATAAAAA TT ACTATAGCTT AAGTATTTTT AA						
	HÆ						



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		GAT	CEL	н								,	3	*	ATT	
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	k		<b>8</b>												8	
	^	5	GAC 7	EΊ					•			9	⊋	*	AIC (	
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009		<b>AC A</b>	TIG I	_										*	TAT T	
	×	TA	AT				•	•	•	•	•	:				
		E E	A GAA	<b>3</b> 4			099	*	AIC	TAG	A D		280	*	CCIT	
590	×	S	GIA	Z	Ĺ		9		ATA	IAT	×				8	
L ,		AIG	AT THE	H	첬			*	AGC	8	A			*	17	
•	k		GIA						TAG 7	12	Ы				IAC	
		AIIC	136	Ω			650	*	GIA I	AT A	H H	1 5	2/0	*	GIA	
580	×		Æ	24				•-	AAT G	TIAC				*	CIC	
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									GIC	SS	Ω					
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## FIG. 12E

800 760... ACA AAA TGC AAG CAT AGG ATACAAACTT AACGGATATC GCGATAATGA.. 790 TOT TIT ACG TIC GIPA TOC TPATIONTICARA THOCCHAING COCHAITRACT... 780 750 770 740 730 첚 Σ Ы 720

810

... AAITAAITIIAI GAITIAITIICI OGCIITICAAI ITIAACACAAC OCICAAGAAC ... TIPATIPAAIPA CIPAIPAAGA GOGAAAGITPA AAITIGIGITG GGAGITCITG

\*

820 830 840 850 860... \* \* \* \* \* \* \* \* \*...

CTITICIATITI ALTITICACITI TITIAAGIAITA GAAITAAGAA AGCICITAALT... GAAACAITAAA TAAAAGIGAA AAATICATAT CITIATITICITI TOGAGAITAA...

920

... AAITRAIGAA CAGAITGIII OSIIIIIOCCC IIGGOGIAIC ACIBAITBAI IBACCOGGC

TIPATITACITI GICIPACAAA GCAAAAGGGG AACCGCAITAG IGATITAATITA AITIGGGCCCG



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## FIG.12F

...076 TOCACCIOCA GGAATICAAC TATATOGACA TATTITCATITT GTATACACAT... ACCITICACCT CCITICACITIC ATMINACTICIT ATMANGIPAA CATATICICIA... , 960 , 920 940 930 \*

			1140	*	ACTATIGAT	
			1130	*	GATGATGTTA	
			1120	*	TATTITICIDA	
1080	ACGITAAL	IGCALTIA	1110	*	TCIPITALAT	STATE OF THE PARTY
1070	* PACETICT TOC	ATTOCAGA ACC	1100	*	TOCCAACATA	THE CHARLES OF SECTION AND ADDRESS OF SECTION ADDRESS OF SECTION
1060	SCAPACIPATI CIPATIACATA ATTICITICIGI TAATAGGICT TGCAGGIPAIT.	COTTICATIVA GALTIALICIPAL TRACAACACA ALTIALICACA ACCIGCALTIA	1090	*	CIRITRIAGA IGCCAAGATA ICIPITATAAT TATITIGIAA GAIGAIGITA ACIPIGIGAT	
105	CTPATPCATA A	GAUTEAUGEAU TO	•	•	•	
104	GCAAACTATT (	CCITICALA				

... GAIDAIDAICI ACGGIICIAI ACAIDAIDA AIDAAACAII CIACIACAAI ICAIDACACIA



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				1230
1190	*	MCT	aca	1220
	*	TTCCAAC	AAGGITIC	1210
1180	*	MATATE	PATRATAC	-
1170	*	IT TOG	PAN AGCT	1200
11	*	TTCATGEA	<b>ANGINCAL</b>	:
1160	*	AATAA	TTAIL	
	*	AGIGI	TCACA	
1150	*	CIMINIMAGI AGIGINALINA TICALIGINIT ICCALMINIG TICCANCICI	GAITAITAITCA ICACAITTAIT AAGITACAITAA AGCITAITAITAC AAGGITGAGA	

... GICTITIGICA TGICTAGTIT CGTAATATICT ATACCATOCT CAAAAATAT ATTCGCATAT ... CAGAAACACT ACAGATCAAA GCATTATAGA TATOGTAGGA GTTTTTTATA TAAGOGTATA

1250

1240

1360

ingredatinea (Tichipatica Cipatancipa Garacecata ecciocolas... 1410.. 1400 1390 1380

ACAGITIAACI AAGAAIIAAGI GAIIAIIAGAIII CIIIIGOCIIAI OGCAGGGAIC...

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1470	*	GACGAACIPAC IGOCALIPAR AICICIPALIPA IPACCITICIGG ACALBALITCA ICIPALIPALAC	CIGCIIICAIG ACGCIPALITA IPGAGAIPAT AICGAAGACC IGIPATIPAGI AGAIPAIPAIG
1460	*	E CA	<b>PAGT</b>
	*	<b>ACATTAN</b>	TGENTE
1450	*	CIGG	5
	*	TAGCIT	ATOGAA
1440	*	ATTA	TAAT
	*	AICICI	TAGACA
1430	*	TAAT	ATTA
	*	TGCCAT	ACCGURA
1420	*	CTAC	GAIG
	*	GACCAA	CIGCII
:	•	•	•

... AGICTITAGAT TCTGGACTAC AAGTATATAA CCAAGTATGT ACTITTACTAG AGATAACTAC

1680 1670 1660 TATICACTICAT AAAGTAAGAG ACTITITAACC ALTICAGTAAG ATATATATACCA... 1650 1640

1690

... TICCITICITIC AUGAAGGADA GAADADACTC AADAGAATTT GDACCAACAA ACUGITICICI ... AAGGAACAAC TACTTCCTAT CITATATGAG TTATCTTAAA CATGGTTGTT TGACAAGAGA



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### FIG. 121

				1800	*	IGIGICAGE	ACACACTOC
				1790	*	SICATIAATITY A	CACTATTAAA T
				1780	*	TACTATICITY (	ATGATTAAGAA (
1740	*	ZAITIPA	STABATT	1770	*	GITIAIICAAITA	CAATTAGTTAT
1730	*	STRAGGC ATTAC	YATTOOG TRAIT	1760	*	CITIGICICCI	GAACAGAGGA
1720	*	SAAAIDANI CAIK	CITITALITA GIRA	1750	*	CAATTAGAGA CITGICTOCT GITATCAATA TACTATTCTT GICATAATTT ATGIGTGAGG	GITPATICTICT GAACAGAGGA CAATAGTTAT ATGATAAGAA CACTATTAAA TACACACTOC
1710	*	INICAMICOT MINICALCAL CIGADALPAL CAUGIDAGGO MINCALITIAA	AIRCITIAGCA TAIRAGIRAGIRA GACTITIRATIRA GIRCATICOG TRIGIRARATIT	•	•	•	•
1700	*	TAICAAIOGI 1	ATPACTTPAGCA 1				

				1910	*	PCAACAITEA	VIGITIGITANT .
				1900	*	GCAGCTACAG TICTITGGCTT AAACAGATAT AGITTTTTCTG GAACAAATTC TACAACATTA	CCICCAIGIC AAGAACCGAA ITIGICIAIA ICAAAAAGAC CIIGITIAAG AIGITGIAAI
				1890	*	AGITITITICIG	TCAAAAAGAC
1850	*	AITOCAAIT	INGGITIA	1880	*	AAACAGATTAT	TITIGICIPATA
1840	*	PACATTAT CAA	VICIPAIRA GIT	1870	*	TICITIGGCIT	AAGAACCGAA
1830	*	TITIGITIA TAG	VANACAAT ATC	1860	*	GGAGCTIACAG	OCTOGRATIGIC
1820	*	ACCITICITITY AND	IGCAACAAA TIF	•	•	•	•
1810	*	CAAAITIIGIC CACGIICITI AAITITIGIIA IAGIAGAIAI CAAAICCAAI	GITITAAACAG GIGCAAGAAA TITAAAACAAI AICAICITAITA GITITAGGITTA				

TIPATAAGGA CITIGGGIPG AIRAGIGGGA IGAAAICCIR TITIBATIBA... AAITAITITOCI GAAACCCAIC ITAITICACCCI ACTITITAGGAT AAAATITAAIT...

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•	1970	1980	1990	2000	2010	2020
•	*	*	*	*	*	*
•	TOCTIATICGCA	TTGTCCTCGT	GCAAATTATTOC	IGCIPAICGCA TIGICCICGT GCAAAITAICC AAAGGCTITIT GIGAITAGIAI GGCAITICAIT	GICATAGIAI	GCCATTICAT
	ACCATACTOR	ATTATTATA	CCSTITUTION	ACCEPTOR AND ADDRESS OF THE PROPERTY OF THE STANDARD CACHENDA CENTRAL CACHEDA	CACTIATICATIA	COSTINACTIVA

			2130	*	ATTAAAAAATT	TATTTTTA
			2120	*	AICIAICICA	TAGATAGAGT
			2110	*	GIAITITITA	CATAAAAAAT
2070	AGAGAAT	ICICITIA	2100	*	ACTACAATTT	TGATGTTAAA
2060	TATICATIC TITE	ALPGIPG AAA	2090	*	CGITTAAITAGI	GCAAITIAICA
2050	SICIAGAAAC GCICIACGAA TAICIGIGAC AGATAICAIC ITIAGAGAAI	CAGAICITIG CCACAUCCIT AIRCACACIG ICIAIRGIAG AAAICICITA	2080	*	AIRCIRGIOG OGITRATROF ACTROPATIT GIRITITITA AICHAICICA AIRARARAR	TAUGAUCAGO GCAAUTAUCA TGAUGITIAAA CAUAAAAAAU TAGAUAGAGU TAUTITITITA
2040	GCTCTACGAA T	CCACATOCITY A		•	•	:
2030	GICTAGAAAC (	CACATICITIE (			,	

2180... TRAITRIGIPAT GATTICARIGI ATRACIPARC TRCIPARCIGI TRITICATRAC.. 2170 2160 2150 2140

AITIATIACATA CIPAGITIACA TATTICATITIG ATCATTICACA ATAACTATTG...

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FIG. 12K

2230	*	GAA	GII	Н	ļ	
7	*	3	AGG.	Ø		
		PC INC	AIG	>		
2220	*	AIC	TAG	Ω		
22		AAG TITT	AAA	×		
	*	AAG	130	Ц		
0	*	AAG 1	CAT TOG TTC :	ᆸ	Ì	
2210		ACC	133	ტ		
	*	GIA	GAT	×		
		ANT GAT GAC GITA	CIG	>		
2200	*	GAT	CIP	Н	į	
7	*	AAT	E E	Н	F.3T	3
			<b>K</b>	æ		
2190	*	GAY.	E	Ą		
21		ETCA TCA	AGI			
	*	INCAMICA (	AICII			
:	•	•	•	•		•

2280... TITI AGC TOC AIT AIT TITI AGC AIC TOG TITI AGA TITI TOC AIC TOC CIT...

AAA TOC AOG TAA TAA AAA TOG TAG AGC AAA TOT AAA AGG TAG AOG GAA...

<K A A N N K A D R K S K G D A K ... 2270 \* 2260 2250 \* 2240

... AITC GAA TAC TCT TOC GIC GAT GIC TAC ACA GGC ATA AAA TGT
... TAG CIT AIG AGA AGG CAG CTA CAG AIG TGT CCG TAT TIT ACA
... D F V R G D I D V C A Y F T 2320 2310 2300 2290

APPROVED		
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## FIG. 12L

•	•	•	•	•
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2370	*	8	GGT	M
		AGA		ß
_	*	AAA	E	ſΉ
2360		AGG.	333	ĸ
	*	AAT	TI V	н
	*	TIC	AAG	臼
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2	*	AAC	TIC	>
		8	TC 635	Ŋ
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2340	*	ACT	<b>₹</b>	ഗ
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2330		<b>AGG</b>	2	₽

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2	*	TTG (	AAC	Ø	
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_	T.	AGT	5	<b>E</b> -1	-
2380	*	EES	A.	×	
•	•	•	:	•	

2460... AGC ATC TIT CCA ATC AAT AAT TIT TIT AGC CGG AAT AAC ATC ATC AAA... TOG TAG AAA GGT TAG TITA TATA AAA TOG GOC TITA TITG TAG TAG TITT... 2450 2440 2430 2420

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* * * * * * * * * * * * * * * * * * *	200	ىد	AIC	TAG	Ω	İ							
3470       2480       2490         *       *       *       *       *       *         *       *       *       *       *       *       *       *         *       AGA       CTT       CAT       TTT       TTC       GGG         *       TCT       CAT       TCT       CAT       TAT       TTC       GGG         *       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       B <t< td=""><td>7</td><td>*</td><td>TAC</td><td>AIG</td><td>&gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	7	*	TAC	AIG	>								
* * * * * * * * * * * * * * * * * * *		*		-		İ							
** * * * * * * * * * * * * * * * * * *	90		8	8	ፚ	ļ		•	•	•	•	•	•
* * * * * * * * * * * * * * * * * * *	24	*						50	*	<u>.</u> E	. J.	<b>田</b>	
* * * * * * * * * * * * * * * * * * *		-k		-				25					
* * * * * * * * * * * * * * * * * * *	0	•	TG-	ACT	ഗ				*				
* * * * * * * * * * * * * * * * * * *	248	*	CAI	<b>SIP</b>	Σ	İ		Q	*				
* * * * * * * * * * * * * * * * * * *				•		ĺ		254					
* * * * * * * * * * * * * * * * * * *		*				İ			*	_	_		
* ************************************	470	*				İ				•	_		
**************************************	(1					F31	}	2530	*				
S S S S S S S S S S S S S S S S S S S		*	_	_			•	(1	*				
520 * AGC TTCG A A			AG.	13	ß					•		Z	İ
~i '7 - '		•	•	•	•		•	520	*	_	_	Ø	
D GAG								5		SIC 7	286	Ω	İ
* CAC GIC CIG CAG									*		OIG (	>	
2510 * TR TRT (								. 01	*				
25 TYAT Y								25		TAT	ATA	н	
* 136									*				

APPROVED	O.G. FIG.					
BY	CLÁSS	SUBCLASS				
DRAFTSMAN						

# FIG. 12N

							AGC	33	Ą									
					2680	*	AGI	T <sub>2</sub>	EH							0770	> *	
						*	AGC	1333								C	7 *	
•	•	•	•	•	•		1300	ACG	Ą		•		•	•	•	• .		
2640	*	<u>.</u>	QC	K N V E R	2670	*	TIG	AAC :	O <sup>i</sup>		2730	*	EIC.	GAG ACC CAG	: A	2760	% %	
7		E	PAG 1	臼		*	Tage	TCA ATC	н		7		1330	55	Ø		*	
	*	AAC '	FIG	>			P AG	A TC	H			*	CIC	9	团			
2630	*	ATT.	TAA	z	2660	*	3 TC	C AGA	ĸ		2720	*	M	E A	н	0750	*	
26		TI	AAA	×		*	E E	C AM	ŏп	İ	27		S	GIG	>		*	
	*	8	2	A;			T AM	A TT	<b>н</b>			*	Z	13	ပ			
_	ىد	SEC	Sic	K K	2650	*	T ATT	A TA	M		0	٠.	8	8	A	5	O#/7	
2620	*	GIA	CAT	×	78	•-	CIC CAI	GAG GI		-E3I	2710	•	AGC	202	Ø	,		
	*	AIC	TAG	Ω		*			X E			*	AAT	TITA	N K I		*	
		AAG	5	Н		•	5 :	GAA	, X				TI	AAA	×		•	
2610	*		AAC		:	:	:	:	•	•	2700	*	GIT	CAA	z		•	,
•	*	<b>A</b>	38	ĸ								*	AAT	ATT.	E I G I			
	·	ACT	T.	A S									35	<b>AGG</b>	Ŋ			
2600	*	AGC	33	Ø							2690	*	S. S. S. S. S. S. S. S. S. S. S. S. S. S	SIS	Н			
7		R	GIA	Z							7		IIC	PAPG	臼			
	*	5	Sig	₽								*	2	<b>A</b>	A			

... AGA ACG CTC GTC AAT ATA GAT CTT AGA CAT TT TTAGAGAA... TCT TGC GAG CAG TTA TAT CTA GAA TCT GTA AA AATCTCTCTT. S R E D I Y I K S M

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## FIG.120

				2880	*	GICAICIPAIA
				2870	*	TCATOCTOTIG GIGGITOGIC GITTOTATOG AAUGIPAGCIC TGATTPACOC GICATOTATI
				2860	*	CIC
				7	*	AATGENG
•	:	•	•	2850	*	ATCC.
2820	*	E S	AAGT	. ,	*	TICE
	*	TITA	AAAT	0	*	500
0	*	T T	A AA	2840	•	NE SE
2810		ICAT	AGIIA		*	1991
	*	MITTE	PAAAT	2830	*	TG G
2800	*	AH.		78	*	200
7	*	CAAAC	CITICA			TCAT
		EZE.		•	•	•
2790	*	TAAA	ATT			
•	*	CAGCAA	GIOGITE			
2780	*	PAC (	) EE			
2	*	CIPACACACA CAGCAAIRAA ACIGAACCIA CITITAICAIT ITITITAITICA	GATHGHGHIG GICGITATHT TCACHIGGAL GAAAIAGIBA AAAAAIBAGI			

... AGINGGAGAC CACCAAGCATAGC TIACAICCAG ACIDAITIGGG CAGINGAIDAI

				2970 2980	1
				29	4
2930	*	GGAAG	OCTIC	2960	7
2920	*	TAIL TAICI	AITA AITAGA	2950	7
	*	GATIGGAT	CIPACCIPA	2940	+
2910	*	TTCTGGAGGA	<b>AACACCTCCT</b>		+
2900	*	GIGAIOCIG GIICIOGAGA IIICIOGAGGA GAIOGAITAI TAICIOGAAG	CACTACGAC CAAGACCTICT AAGACCTICCT CTRACCTAATA ATAGACCTTC		
2890	* *	GETCATICCTIC (	OCACITACGAC (		

... AAICICIGIT AITICCIIGI IIICAIGIAI CGAIIGOGIT GIAACAITAA GAITIGOGAAA ... TIPGRGACAA IPAAGGAACA AAAGIPCAITA GCIFAAGGCAA CAITIGIFAAITI CIFAAGGCITITI

2990



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# FIG.12P

				3100	*	STAGISATTOC	PATCATRAGG
				3090	*	CATCATOGGC 6	GENGENAGOCO (
				3080	*	TPASITICAAT	ATCAAACITA
3040	*	ACCCT	TGCGCA	3070	*	CAGCIGCIC	<b>YSTOCHOGAG</b>
3030	*	PATICE CENC	STINGA GAIG	3060	*	DEAGGITICS 1	ACTICCAAGC 1
3020	*	GCICIPAAT TIGGGAGGCT TAAAGIGIIG ITIGCAAICT CIACAGGGI	ACCAGATITIA AACCCICOCA AITITCACAAC AAACGITIAGA GAIGIGGGGCA	3050	*	GICTAACTAG TOGAGGTTCG TCAGCTGCTC TAGTTTTGAAT CATCATCGGC GTAGTATTCC	CACATTICATIC ACCTOCCAGG AGTOCAGGAG ATCAAACTTA GTAGTAGGG CATCATAAGG
3010	*	TEGGRAGECT TRA	ACCUTCOCA ATT	•	•	•	•
3000	*	TGCTCTAAAT T	ACCACATITIA A				

			3210	*	TOCTITICITIA	ACCAAACAAT
			3200	*	AAAIPAICGE IGEAACICAC AICCETIAIT FIBICIAIRE IGEATICEAC ICCETICETA	ITITATITAGCA ACATTICAGIG TAGGAAAITAA AAITAGATAITA ACATAAGAIG AGGAAAGAAI
			3190	*	TEATCEATAL	AATACATATA
3150	AACCITIA	TTGCAAT	3180	*	AUCCITITATI	TACCAAATAA
3140	CICCIC GAG	SCAGCIAG CTC	3170	*	TGTAACTCAC	ACATTICAGIG
3130	GIATIGI AIT.	CATTAACA TAAA	3160	*	AAATAATOGT	TITATIACA
3120	TYPGGACAC GGI	ATTOCTIETIC CC?	•	•	•	•
3110	TACTITITACA GITTAGGACAC GGIGIATIGI ATTITICIOGIC GAGAAGGITTA	AIGAAAAIGI CAAICCIGIG CCACAIAACA IAAAGAGCAG CICTIGCAAI				

3260	*
'n	*
3250	*
m	*
3240	*
(•)	*
3230	*
.,	*
3220	*
. •	*

AUGCALTITIEN TROCCAALEA CACALEACCE AGCAALTICIT TITEATTICATT... TACGIRABAN ANGCITIANT CICIPATOSCI ICCITRAGAA AAANAACIBA...

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# FIG.12Q

0000 -	
	k K
i	
	AACTIAATICAA ATICACTIATIATI ATIAATITICAAA AACTIAAAATIA TIAAATICATIATI AATIAATICAAA
ATT	المائيكيان كالملكين كالمائية المائيكات المائيكات المائيكيات كالمائية المائكينية المائكية

				3430	*	TICATICAA	<b>PAGEAAGEE</b>
				3420	*	AAGIRCIGCI AAAIICICCAA AAIIIAGAIRA AAAIIGAIRCA GCAAAIRCAG CIIICAIIICAA	CETTIMICIC (
				3410	*	AAAIICAIACA	TITIACIPATGE
3370	*	AIIGAAGI	TACTTICA	3400	*	AATTACATAA	TTAAICTATT
3360	*	ICTICITY CIPA	ACAACAA GAT	3390	*	<b>AAAICICCAA</b>	TITIAGAGGIT
3350	*	CCAPATRICA GIRATRGACA GGAACIGGCA GAITICTICTIT CIRATGAAGI	SCITITATIAGI CATTAICTIGI CCITICACCGI CIPAGAACAA GAITIACTTICA	3380	*	AAGTACIGCT	TICAIGAGGA TITIAGAGGIT TITAAICIAIT TITIACIAIGI OGITIAIGIC GAAGIAAGIT
3340	*	GIPATIACACA C	CATTAICTGT (	•	•	•	•
3330	*	CCAAAITAIICA	GCITTIAITAGI				

			3540	*	AAAGAITICAI ITICIAAGIA
			3530	*	TCACATICATIG ACAAAGIYAAA TAITAAATTITA ACITTATIGGGI ATAATAITAAT AAACATTICAT AGICIYACIYA TCITTICATTIT AITAITTIYAAAT TCAAITACOCA TAITTAITATTA TTTICIDAGIYA
			3520	*	ACTITATIGGGT TGAATIACCCA
3480	AACTAAG	TTCATTC	3510	*	TATAAATTTA ATATTTAAAT
3470	ACACAC CITIALTIACAA ACITAACITAAG	PANTETT TEA	3500	*	AGAAAGIBAA ICITIICAITI
3460	ACACACAC CTT	TCTGTGTG GAA	3490	*	TCACATCATG
3450	CCAATTACCT TITTAATTITT TCAG	SCITPATICEA AAAITIAAAAA AGICIIGIIGIG GAATIAAIIGIT IGAITICAITIC	•	•	• •
3440	CCAATTACCT T	OCTITAATIGGA A			•

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# FIG.12R

				3650	*	ATTGTTTAAG	TAACAAATTC
				3640	*	TICAAACCIT ICIGGATAIT ATAAAATACC AGTTAATGAT ATTAAAATAG ATTGITTTAAG	AAGITIIGGAA AGACCIAITAA ITAITITIAIIGG ITCAAITIACITA ITAAITITITIAIIC ITAACAAAITIC
				3630	* *	AGITTAATICAT	TCAATTACTA
3590	*	CAACCCC	GTTGGGG	3620	*	ATTAAAATTACC	TATTTTATGG
3580	*	GITPAT AGACTITATIC CATCAACCC	TITALITIC CALIC PAALIVAG GIPAC	3610	*	TCIGGATAIT	AGACCTATTAA
3570	*	CATICITIMAT ACP	TRIBATTAT TAAAIGAAIT GCIACAAITA ICIGAATAAG GIAGIIGGGG	3600	*	TICAAACCIT	AAGITIGGAA
3560	*	PATATTAATA ATTITACITTAA OGAIN	TAAAIICAAIII G	·	•	•	•
3550	*	GATTATTAATTA	CIPITAPITAL				

				3760	*	<b>SCATTITACAG</b>	CTAAAIGIC
				3750	*	CACATIGGAAA TGAATTACCT AATATTAATA AITIAIGATAG GAATTITITIA GGATTITIACAG	GIGINOCITIT ACITIAATIGGA TITATIAATITAT TAATIACITATC CITIAAAAAAT OCIDAAATGIC
				3740	*	ATTATICATAG	TAATACTATC
3700	*	DAICITY	ATACAAA	3730	*	AATTATTA	TTATAATTAT
3690	*	AAAGGA TATAAAATTA GICTATCTTT	ITITIDATE CAG	3720	*	TGAATTACCT	ACTITAATICGA
3680	*	, Traaagga tratif	CATTICCT AIR	3710	*	. CACATIGGAAA	. GIGINOCITIF
3670	*	CATGEAAT AATEATTIGG AGGE	CIACATITIA TIPADAAAC TOCATITICCI ADALITIPAAT CACATACAAA	•	:	•	:
3660	*	ACATICTAAAT 1	TCTACATTTA :				

3810... CIGITIATIATIC TRATCAACAAT ACAGGCACAT CIRTGGITAT GGIAAAACAC... \* 3800 3790 3780 3770

GACAATATAC ATAGITIGITA TGICCGICTA GATACCAATA CCATTITIGIG...

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DRAFTSMAN	L		

:	3820	0	3830	3840	0	3850	•	3860	3870	_
:	*	*	*	*	*	*	*	*	*	
:	TGTPACGGG	A AGC	<b>AGCALTIC</b>	TGTPACGGGA AGCAGCATTC TRIGGTPACT GGCCTPATGTT TPATPACCAG ATCATTTTPAC	I 6600	TAIGIT	TRATTAG	SCAG	ATCATT	TI
•	ACATTIGOOC	T TOG	TOGITABE	ACATTICOCCI TOCTOCTAAG ATACCATTICA COGCATACAA ATTATICGGTC TACTAAAATG	A 0000	ATTACAA	ALTEATO	3GIC	TAGTAA	AAT

FIG.12S

				3980	*	TACTAATAA	ATCATTAIT
				3970	*	AIRICIPACA ACAACAAAA AAITIPAACGA IGIRAIGGOCA GAAGIRIITII CIPACIPAIPAA	TATAGAITIGI TGITIGITITI TTAAAITIGCI ACATACCGGI CITCATAAAA GAIGATTAIT
				3960	*	TGTATGGCCA	ACATTACCGGT
3920	*	PATPIT	ATTATTAA	3950	*	AAITITAACCA	TTAAATTIGCT
3910	*	AIRGGA ICCICIRGAL AITITAALTAIT.	GATCTA TAA	3940	*	ACAACAAAAA	<b>IGITIGITITIT</b>
3900	*	TANTAGGA TOCT	AGAIPATITIGI AAAAIIGGIIGI IITAIITAIDCI AGGAGAICIIA IBAAITIAIBA	3930	*		TATACATIGE
3890	*	CTATAAACA TTTTTACCACA AATAA	AAAIIGGIGI III	•	•	•	•
3880	*	TCTATAAACA 1	ACATATTTGT A				

				4090	*	TRGIRGIRGC TRCIRATRIG GAAAGAAAIG TATACAAAA OGIGGAAGCT TITTATATTAA
				4080	*	SCAAGCT T
				4070	*	AAAA CGII
					*	TATACA
1030	*	<u>H</u>	AA	4060	*	GAAATG
40	*	YEAATCA	PATTAGE	Ö	*	G GAAA
4020	*	ACATRAAGAT AGICTATCIT AICTACAAGA TAIGAAAGAA GATAATCATT	CIATITICIA ICAGAIRGAA IAGAIGITICI AIRCITITCIT CIAITIAGIRA.	4050	*	CIPAITAI
	*	TAICA	ATACTI	4040	*	PAGC TYA
4010	*	PCAACA	MGITICI	7	*	TAGTAG
		AIC	TAC	•	•	:
4000	*	AICIT	IAGAA			
	*	AGICI	TCAGE			
3990	*	<b>VACAT</b>	TCIA			
	*	ACATA	TCTAIL	٠		

... AICAICAICG AIGAITRAIRC CITICITIRC AIRIGITITIT GCACCTICGA AAAIRIRAIT

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### FIG.12T

				4200	*	CAGICATATA	GICACIPATAL
				4190	*	TIPAAITGCCA AIRICGAITC IRIPATITICAT CAIRACAGIR GIRCATIRAI CAGIGAIRIRA	AAITIIMOOGI IIAIIMOOCIIMAG AIIAIIMAAAGIIM GIRAITIIGIICAI CAIIGIIMAITIM GIICACIIMIMI
				4180	*	CATTAACAGTA	GIPITIGICAL
4140	*	AAAACAG	ITITIGIC	4170	*	TAITATTACAT	ATTATAAAGTA
4130	*	ITINGTINI ANC	TTAGTTAT AAC VAITCATTA TTG	4160	*	ATATICGATTIC TATACCIAAC	TATACTAAG
4120	*	ATROCATRIT ACTREAAGAT TTRAAAITCTA GACTTAGTAT AACAAAACAG	DATOGIBADA TGATOTICIR AAITITIRGAT CIGAATCAIR TIGITITIGIC	4150	*	. TIPAAIIGOCA	. AAITITACGGI
4110	*	CIPGAACAI TI	CATCITICIA AA	•	•	•	•
4100	*	ATPACATATT P	TATOSTATAA 1				

				4310	*	ATAGGATACG	TATOCTATEC
				4300	*	AATACTAAAA	TTAICALTIT
				4290	*	ACCITICIPACE	TCCAACATICC
4250	*	IGCCAAT	ACCELTA	4280	*	PATGICTAAT ATTITAACIT TAGAACTAAA AGGITICTACC AATACTAAAA ATAGGATAGG	ATACAGATTA TAAAAITGAA AICITGAITIT TOCAAGAIGG TIAIGAITIT TAIOCIPAIGC
4240	*	ATTARGCA ATTA	PATTOGE TAN	4270	*	ATTITAACIT	TPAPATTICFA
4230	*	CIPATICCAA GCA	CATACGIT CCT	4260	*	. TAIGICIPAI	. ATACAGATTA
4220	*	CIGABACCAT CIRCAGACIC AACIBIIGCAA GGAAIBAGCA AIBIIGCCAAI	PACITICCIA CAUGICICAG TIGATACGIT CCTTATICGI TATACGGITA	•	:	•	•
4210	*	CICANACCAI (	GACTITICCIPA (				

TGATAGGCTG TIPAAAGCTG CAATAAATAG TAAGGAIGTA GAAGAAATAC... ACTATOCCAC AATTITICGAC GITIAITITATIC ATTICCTACAT CITICITITATIG...

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4420	*	<b>AAACTTIGITA</b>	GITIGAACAL
4410	*	TITIGITICIAL ACCITICGGAG GAAGAACIT TAGAACAACI TAAGITITAAL CAAACITIGIP	ALTICAAALTIA G
4400	*	TINGANCANCT	AAACAAGAIR IGGAAGCCIC CIITICIIGAA AICIIGIIGA AITICAAAIIA (
4390	*	GAAACAACTT	CITICITICAA
4380	*	ACCITICGGAG	TGGAAGCCTC
4370	*	TITIGITICIAL	AAACAAGAITA
:	:	:	:

FIG.12U

4430 \* \* TITIVICAAGG TACC AAAUACITICC AIGG